

Cyclin D2 promoter, MSP primers  
Accn. No. U47284 Promoter region analyzed: -1616 to -1394 bp

1 gaagctCGaagc caCGcccatgc ccGctgcacG tgcacagcttg CGcagcacat cagrggCGctg  
61 gtctctcccc ttcctcctg agtgaatatc accaaagrgc GCGgtgggg tgggggtga  
121 CGggagrgaag gaggtgaaga aaCGccacca gatCGtatct cctgtaaaga cagccttgac  
181 tcaaggatgc Gttagag CGa CGcttgct ggCGgacttc acCGcagtCG  
241 gctcccaagg agaaagcctg gcagagtgag gCGCGaaacc GgagrgtCGg CGagrgtCGG  
301 ggCGaaagrac CGagCGgtga ggcctcatgc ctCGgggaa aggaagrggt ggtgtgttt  
361 ggCGcagrggg agCGaagrgg agcCGgacct aatccctcac tCGccccctc cccctccCGg  
421 gccatttctc agaaagctgc atCGgtgtg ccaCGctcag CGcagrgacac tCGgrgCGgt  
481 tgtcagcaga tgcagrgrgCG agrgaagCGgg ttttcctgc GtggCGctg ggCGggrggaa  
541 CGGctggrgag ccctgccccCG GgctgCGgg Ggccccagac GctgcacCGG GtCGccccag  
601 ggrgccCGaa gagccccag aaacaCGatg gttctgtc Gagrgatcac ttctatccct  
661 ccagagaaagc acccccttc ctctaatc cccaccttc cctcccttc ctccctgc  
721 acacactctg cagrgrgrgg cagaaagrac Gttgtctg tccctttaat CGgrgctttc  
781 gaaacagctt CGaagtatc aggaacacag acttcagrga catgacctt atctctggt  
841 atgCGaggt gctatttct aaatcaccc cctcccttat tttcactta agrgacctat  
901 ttctaattg tctgagtgca ccccatctc agataatcta ccctacatc ctgatactta  
961 aatacaagrg cagrgagat aggatCGGtt ttgaagagc caaagttgga grgtCGtat  
1021 ttgCGgtgct acacctacag aatgagtgaa atgaagrgc agaaatagrga gtCGgtagt  
1081 tttgtgtgt tgcctgtCG ggrgccctg catgcaagct grgatrgagrg agrgrgtgtg  
1141 grggtgCGG grgacCGGgt ttgaagttg gtCGggccag ctgctgttct ccttaataac  
1201 grgagrgrgaa aagrgrgrgg grgagrgagrg atgaaagrga grgagrgagrg acCGgagrgg  
1261 grggaaagrg grggagrgaac cagrgCGggg agrgCGGggg agrggagrga grgctaactg  
1321 cccagccagc ttgCGctcac GcttcagagC GgagrgagrgC Gagcagrgrga grgCGgagac  
1381 agtttaagrg grgagracCGg tgCGagtgag grgagccCGa grgctgtgc Gccccaacac  
1441 caatcctCGc ctcccttctg ctccacctc tctctgtcc ctcaacttc cccCGaaaac  
1501 cccctattta gccaaagrga grgagtgagrg grgaaCGctct cccctccct tccaaaaac  
1561 aaaaacagaa aaaccttlt ccagrgCGgg gaaagcagrga grgagrgrgg CGGCGggt  
1621 ggcc gag

FIGURE 1A

MSP Unmethylated 223 BP

GT TATGTTATGT TTGTTGTATG

Forward UM 22 BP MT 56

Т ААААТЦАСС ААСАСАТТА

Reverse UM 21 BP MT 56

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TELEVISION BROADCASTERS

F M 19 BP MT 58

# DATA MANAGEMENT

R M 20 BP MT 56

**FIGURE 1B**

**Twist Promoter:** Accn No. AC003986  
Promoter Region analyzed: nts -51145 TO -51750

1 cattggaatg ggtttccttc caccGaaagag tgaacttctg cctcttCGa gcaacctcCG  
61 aggCGtaatc ctttgatgt tggggaGCGt caagactggt CGttgtagaag gggaagagag  
121 ggcccaagag ggCGaagagag cagggCGgga CGcaatcct cagccccCGC GgCGCGcaacC  
181 Gtcttcagaa aCGccaagac ctCGggtctg ggCGCGCGG gtttgctt tggaaactcaa  
241 gggttCGtct acctgaacct tgggtgctc CGCGgttgac actttcttg gcatgcccc  
301 ccaaccCGCG ccaacaccac cccccaagccc cagcaatcca aatCGgcccc aCGgaacctag  
361 agggctcttg ggCGaagatga gacatcaccc actgtgtaga agctgttgcc atgtgctg  
421 tcaacagccaG tCGaagatgg gctgccaacCG tggccaagac agtctcctc GacCGcttc  
481 tgggtctgCG taagggtCGg ggCGGctgcc CGcaCGctcc GgCGgggag gaaatCGcccc  
541 CGCGCGCGCG GgaaggaagG GaCGgggag gaaaggagg ggCGGtagg aggCGggtg  
601 aggggCGCGC CGCGCGggcc aggCGGtctt tgaatggtt gggaaggaCGa atgttagac  
661 ccCGaagag ggaggtggga CGggggaggg ggaatgaaaa gCGgaacctt tcctataaaa  
721 cttCGaaaag tccctcctcc tcaCGtcaag ccaatgacac tgggtcccc aaacttCGG  
781 cctgcaCGga ggtataagag cctccaagtc tggagctctc GccccCGctc cagacacctc  
841 gCGggtctg cagcaacCGgc aCGtttcca ggaagacctg CGgggtgtgC GtccaagCGGt  
901 tgggCGctt cttttggga cttCGgggc atccacacCG tccctcccc ctccCGctc  
961 cctccCGCG tccccCGCG Gccctcccc CGgaagtccc tccCGtCGt cctcctgctc  
1021 tctcctCGCG GggcCGcatC GccCGggcCG gCGCGCGCG Ggggggaaagc tggCGggctg  
1081 aggCGccccG ctctctcct ctgccccGGg cCGCGaagc caccCGtCGC CGctCGaagag  
1141 atgcaag aCGgttccag ctCGccaagtc tCGCGggcCG aCGaagcct gagcaacagc  
1201 gaagaaagac cagaacCGgca gcaagcCGCG agCGgcaagc GCGggggaCG caagCGgCGC  
1261 aCGaagcagc GcaCGgCGg CGgCGgCGCG gggtccCGCG gaagCGgtgg gggtCGtCGga  
1321 ggCGgCGaCG agcCGggcgag ccCGggccag ggcaagCGCG gcaagaaagtc tggCGggtgt  
1381 ggCGgCGgCG gCGgCGCGg CGgCGgCGg Ggcaagcagca gCGgCGgCG gaagtcCGcaag  
1441 tcttaCGag agctgcagac GcagCGggtc atggccaacCG tggCGgagCG ccaagCGcaac  
1501 caatCGctga aCGaagCGtt CGCGCGctg CGgaagatca tccccaCGct gccctCGgaac

FIGURE 2A

1561 aagctgagca agatlcagac cctcaagctg gCGgccaagt acatCGactt cctctaccag  
 1621 gtcctccaga gCGaCGagct ggaactccaag atggcaagct gcaagctatgt ggtcaCGag  
 1681 CGgctcagct aCGcccttcC ggtctggagg atggaggggg cctggtccat gtcCGCGtc  
 1741 cacCGcagg CGgagccccc caccctctca gcaaggCGg agaccCGgt aaggacCGCG

FIGURE 2B

**Unmethylated 193 BP**

tt TGgatgggt tgttatTGT FUM (3) 21 BP AT 58

c ctaaccCAaa CAacCAacc RUM (3) 20 BP AT 60

**Methylated 200 BP**

c TTGGgagggg gttgttatCG FM (5) 20 BP AT 58

ggaCGgaC gTgaCGCGga CG RM (4) 19 BP AT 58

FIGURE 2C

**RAR beta promoter, MSP primers**

ACCN NO. AF157483

Promoter region analyzed: nt -196 to nt -357

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1 gtgacagaag tagtagaag tgaagtgtc agagcagga ggtctatc ttgccaaag
61 gguggaccag aattcccat gCgagctgt tgaugactgg gatgcCGaaga aCGCgagCgag
121 tCGGgagCgag gtttgtctg gcaCCgCgG gtaagatCC GgaCCgcat CGgaagctt
181 ttgcaagca ttacttga agugaactt ggatcttc tggaaacccc CCGCCCCGgC
241 tggattggCC Gagcaagcct ggaaatgca atgaaacac agagcaccag ctctgagaa
301 ctCGtcccaa gcccccatc tccattcct cccctCGag tgtacaacc ctgctCGtc
361 tgccagaca aatcatcag gtaaccatatt ggggtcagCG cctgtgagg atgtaaaggc
421 ttttcCGca gaagtattca gaagaat attacact gtcaCCgaga taagaactgt
481 gttattaata aagtcaccag gaatCGatgc caatactgtC Gactccagaa gtgcttgaa
541 gtgguaatgt ccaagaatc tgtcaggaat gacaagaaaca agaaaaagaa gagacttCG
601 aagcaagaat gcacagagag ctatgaatg acagctgagt tgaCCgatc caagaagaag
661 atCCGaaaag ctacaccaga aactttcct tcactctgcc agctggttaa atacaccaCG
721 aatCCcagt ctgaaccatCG agtCCgactg gacctgggcc tctgggacaa attcagtga
781 ctggccacca agtgcattat taagatCGtg gagttgtcta aaCGctctgcc tgtttcaat
841 ggcctgacca tCGcagacca aattaccctg ctgaaggCCG cctgcctgga catcctgatt
901 cttagaattt gcaaccagta taccaccagaa caagacacca tgactttctc agaCGgcctt
961 accctaataC Gaactcagat gcaaatgct ggaattgttc ctctgactga ccttgtgtc
1021 acctttgcca accagctcct gcctttgaa atgtagaca cagaaacag ccttcagat
1081 gccatctgct taatctgtg agacCGccag gaccttgag aacCGaaca agtagataag
1141 ctacaagaac catlgtgga agcactaaaa attatatca gaaaaagaCG acccagcaag
1201 cctcacatgt ttccaagat ctaatgaa atcacagatc tCCgtagcat cagtgtctaaa
1261 ggtgcagagC Gtgtaatatc ctgaaaatg gaaattcctg gatcaatgcc acctctcat
1321 caagaatatc tggagaatc tgaagagac gaacccttga ccccaagtc aagtgggaa
1381 acagcagagc acagtccatg catctacacc agctcagtg aaaaacagtg gttcagtcag
1441 tcaccactCG tgcataaaga ca

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**FIGURE 3A**

Figure 3B

Unmethylated 163 BP	
gatttg gatgtTgaga atGT	FUM 21 BP AT 60
C Aaccaatcca accCAaaACA	RUM 21 BP AT 60
Methylated 142 BP	
ga aCGCGCGCGCG tTtCGCGt	FM(2) 19 BP AT 60
CGCGCGCGCG aCGCGCGCG	RM(2) 19 BP AT 58

FIGURE 3B

Homo sapiens serine protease-like protease (nes1) mRNA, complete cds      AF024605      ACCESSION

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1  accagcgca gaccacagc agggcagag cactctggg tccccctcct ccttcctatc
61  ggcgactccc agatcctgac catgagagt ccgcacctcc acctctccgc cgcctctggc
121  gcccgggctc tggcgaagt gctgccgtg ctgatggcg aactctggc cgcagaggcg
181  gcgctgtccc cccaaacga cagcgcttg gaccccgaa cctatggcg ccgtgcgcy
241  cgcggtcgc agccctgga gttctgctc ttcaacggc tctcgtcca ctgcgcgggt
301  gtcctgtgg accagattg gttgctgac gccgcgcact gcggaacaa gccactgtg
361  gtcgagtag ggatgatca cctgtgctt ctacaggcg agcagctccg ccgagcagc
421  cgctctgtg tccatccca glaccaccag ggctcaggcc ccactctgcc aaggcgacg
481  gatgagcac atctcatgt gctaaagct gccagggccg tagtgcggg gccccgcgtc
541  cgggccctgc agcttccct ccgtgtgct cagcccgag accagtgcc ggtgtctgc
601  tggggcacca cggccggccg gagagtgaag tacaacagg gcctgacctg ctccagcatc
661  actatcctga gccctaaga gtgtgagtc ttctacctg gcgtgtcac caacaacatg
721  atatgtgtg gactggacc gggccaggac cctggcaga gtgactctg agggccctg
781  gtctgtgac agacctcca aggcctctc tcgtgggtg ttacctctg tggctctgcc
841  cagcatccag ctgtctaac ccagatctgc aatatcatgt cctgatcaa taagtcata
901  cgctccaact gatccagatg ctacgtcca gctgatccag atgttatgt cctgctgac
961  cagatgccca gaggtccat cgtccatct ctctctccc agtcgctga actctccct
1021  tgtctgcat gttcaaacct ctgcgcctt ccacacctt aaacatctcc cctctcact
1081  cattccccc cctatcccca ttctctgct gtactgaagc tgaatgcag gaagtgtg
1141  caaagttta ttccagaga gccaggaagc cgtcatcac ccagcctctg agagcagtta
1201  ctgggtcac ccaacctgac ttctctgcc actcccgct gtgtgactt gggaagcca
1261  agtgcctct ctgaacctca gttctctcat ctgcaaatg ggaacaatga cgtgcctacc
1321  tcttagacat gttgtgagga gactatgata taacatgtgt atgtaaatc tcatgtgatt
1381  gtcattgaag gcttaacaca gtgggtgtg agttctgact aaagttacc tgtgtcgtg
1441  aaaaaaaaaa aaaa

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FIGURE 4A



HOX A5 Promoter 3' to 5'

AC004080

16321 accaagagag actgugagag ggCGGcagag aagagaggg ggaCCGagag CCGCGtcccc  
16381 gCGGtCGCGt ggatttagaa aaagugctgc ttaccatga ctatgtga gcttgCGcat  
16441 ccaagugtag atctguggt ggugCGGCGG CGCGguct GgctCGctt gCGcaCG  
16501 ctgctCGctg ctgugcaggg CGtccctctc GgctCGCGaCG GCGtgcacaa cccctctct  
16561 gctgctgag tgggtgctgc CGGCGtCGGc CGagugCGCG ctgagttgc ttagugagtt  
16621 ttccCGCG tgggtgctgt CGctgCGGg CGagugggcc aCGCGagag agugcagCGG  
16681 atCGguctga ggaagagtCG tggaCGtgc CGgctgctg taccCGgct CGGCGgugCG  
16741 CGCGctgCG ctgugcagCGt agctgCGGg GCGctctCG gagccaaagt ggCGCGagcc  
16801 CGagCGGg CG aCGctgagat ccatgccatt gtagCGtag cCGtaccCG CGgagtgcat  
16861 gctCGCGag tccctgaat gctCGctcaCG ggaactatga tctccatat tatgcaactg  
16921 gtagtCGGg ccatttgag agCGgaCGca aaatgagtt acaaaataag agct ttg  
16981 tttttgata tgtgtgctg attgugct CGCGgtCGtt tgtgCGttta tagcaccct  
17041 gcaacattta tgatgaatta tggaaatgac tgggacatgt acttggtcc ctctaCGta  
17101 ggcaccccaa tatguggtac GacttCGaat caCGtgctt tgtgtccag tCGtaatcc  
17161 tgcctgatga cctctagag taactCGtg cactaatag ggagttggtt ggaugCGag  
17221 ggugtgCG GCGCGccccCG ggCGCGtgcc CGCGccagt tgcCGCGtt cagcCGagc  
17281 CGagCGccac CGctgagag cagugctcat CGcccaugct CGgaCGGg gctgcaagg  
17341 CGGggtCGa attgaggtta cagccatta tggcaaaat atgcatttc cctCGagtt  
17401 ccattagag gtaccaattg ttagucCGtc agctgCGat CGCGCGccccCG gCGagatgc  
17461 agaagattg

FIGURE 5A

Complement- 5' to 3' Promoter region analyzed: nts -97 to nts -303

ccaatccctct gcatcctCGC CGggCGCCCG atCGgcagct gaCGgacctaa caatggtac atcctaattg  
aactgCGaagy gaaatgcaat aaattttttttt taaatggggtgtg taaactcaat tCGaccccCG cccttgcaagc  
ccCGgtCG aagctgggCG atgaagccctg cctCGgctcctg gt ggCGCCTCG agtcCGgctg aaCGgCGgca  
actgCGgCG ggcaCGCCGcc CGgggCGCCG GCGcccacccc.cctCGcctcc acccaactcc cctattagt  
caCGaagtta cctctagagag tcatcagugcagugatttaCGa ctggacaaa aaagcaCGgtg attCGaaagtC  
Gtaccccata ttggtgtgcctaCGt aggggag gggaaCGCaaagt aaaattgtccca gtcatttcca taattcatca  
taaatgtgc aagugtgcta tagaCGccaca aaCGaCGCG agccacaat caagcacaca  
tatcaaaaaacaaa aagct cttatttgt aaac aaatg cccCGgactac  
caattgcata attatgagga tcatagtcc gtgatCGagc aatcagugga ctCGgCGagc atgcactCG  
gcaagtaCGg ctaCGgctac aatgucatg atctcagCGt CGgCGctCG ggtcCGgccc acttgtct  
CGgagagCG GCCCGcaagct aCGctgcca CGccaagCGCG gCGccCGccCG agcc aagtaCGgagc  
caCGttcca CGcaactctcc tcagccCGat

FIGURE 5B

Unmethylated 213 BP

TTGgtTTg aagttggtTG **FUM 18 BP AT 56**

gtatTGtgt attTGaagtT **g**tatt

aataC **A**aactCAaat **caCA**tac **RUM 22 BP AT 56**

Methylated 183 BP

TTTaaGTTGgt gttgttGTTTTG **FM 18 BP AT 58**

tacGtgt attCGaagtC **g**tatt

gtatG **G**aactTTGgaat **caGTTG **RM 20 BP AT 56****

FIGURE 5C



*Homo sapiens* 14-3-3 sigma protein promoter and gene, complete cds.  
ACCESSION No. AF029081

```

1  g gatcccccagc ctgccccctcc acttctctcc caagccaggt cccggcatg gtgggtatg
61  ctcatgctgg caatacttga aacgggttta ttaatgctgg gtatttga caatttata
121  gacctctttt ctacatagtc tttttaaat ggaagagaa aatgtcagcc acattactgt
181  ctgtgtagtg ccaggtgaag gttatcaga agctgtgtg gtttaataa gttattcca
241  agagaccctc tggctggaat gatlgaagat gtgtgtgat gtgtgtgtg gttcatgtgt
301  gccctgtatg aatgtgctg gtcaccagat cccctgggt gccccctgc ccattccctt
361  tgaatatcag aagcaacttg agccaagggt acagggggca cgtgcactgg tcaagagaaa
421  accctgggt cccactgggg ctcaagccag cctcctatc ttcctcttc tatgacttc
481  agacagccag tgtctgggga ctctgccact ctacccccag ccctaccac cagccccag
541  gtgaggttc cagctgggac ctgccagac aggttagacc tgggcgtgt ggttgggtg
601  atggtcttgg ggaagcgctg ccattcctaca agccacacc cctcctctga gctctgaata
661  tgggacccag tgcagagagc tggaaagacaa ggtgttctg ccaacggga cctccatcca
721  gagaagaaga agaaggtgca ggttgggcca agaagcaagt gaagttggc ctgagttgg
781  gccggaact cagagatgt ttcctctctg ctggagctg tagttctta tcaaataga
841  tatgttcca ccattccct ccttggcct tcaagttggc tgaagcctg gaaagtga
901  taqgaagtc ccagatcttg cccttctcac tccagagct agttgtcaca gacagctgg
961  aatggcagcc acagaggtc cctctgagaa aacagctga ctagagagag ggtctccac
1021  gcatcactgc agtggccctg ggaagtgagg aagaagctg ctagagagag ggtctccac
1081  ctaccttta tttaagccag tatcttctg tccgtctgt aataaactt cagttataa
1141  gagtgtctt gctttgttt gtttttgtt tgccttccct ttgctgagc cccaactgg
1201  agccctctgt tctttcagac aaatttgtt cttcctggg gagactgtga gaagcagagc
1261  agcccagtga tctggtaca ttttccctca cctggctgga gctctgtccg ctggaggaag
1321  agcagagagg gctgcggctg agcccccatg ggcacgtgaa aagaguccat cctgtccct
1381  cttgtcccc tccacctcc cctgcctcag gggcttgag accccaatt ctcttcct
1441  actgccttc cactccgac cccaatgagt gccacgtaa gaaatgttt gagacagtag
1501  atccagttt gagagccgga gcttccctg ctaccacct caacctggc accagggccc
1561  agccagacaa ctcataaac tggtccacct ctctgtatc tccctcagga ggaacacctgt

```

FIGURE 6A

1621 caggatatttg ccatctcctg cacagcctga gggagctaa caagcctctt tgcagagggt  
 1681 taagtgttaa gaccgtttct tccctgtcgg ccagcactgc ccgtccctt ccacacacca  
 1741 tctcatcctc atcgcatgcc tcggcaaccc catgagccc gtccatctgt ctgtgtgtg  
 1801 gtgcggtgtg tgtgtgtgtg ggaagagcta aaagcccagc cccattgttg actgaggaag tacgttcgag  
 1861 cgggatatag ggaagagcta aaagcccagc cccattgttg actgaggaag tacgttcgag  
 1921 cagagcagct ctccagctgg aagagagagt ggaaggtgag gctggggaga ggaatggcaa  
 1981 cctgccctga ggtgtctggg tctgtgtctg ttgggtcctg gtatgcaggg gccaccggtc  
 2041 actaacactc ttatgtcctg gcttctgtc cccgtgagc ttctctcac ccgcccgttt  
 2101 tctctcctgc ttcatgtcct gctgcctaa ccttgccct tctctgggc agagcaggt  
 2161 gctgtggcag cactctccc caccaccggg cccctgcagg ccgcctccct cctccaggc  
 2221 ctgttaaccc tctctctct ccttcttgc tgtcctgcg gggatctcca gtgtgtcgg  
 2281 gggttaagg acctcctgag gaccgtgtct ctctgcctt ccaggaatgg cctggggga  
 2341 gccaggcacc cggcacctcc acctgcctaa ccttgccc atctgccacc atctgtgct  
 2401 acagggtctg cccccaggc tggccggcct gtgtgtctc taggaacca tagggggcag  
 2461 gggttgacct cttgcccc ttccgctcc atggcgcca gagtgtagaa agccataag  
 2521 caccgagcca tcaagacaat aatgtgact tacgtgata tgtccctct ctccctact  
 2581 gacttccct tcccgattt gtgaggtgtc aagactaga atctggcct agagcctgac  
 2641 cctccacccc ctacagatcag gcatagccat agtcaagccc agcaggttc ctacgagct  
 2701 gtctgggtg ttgatgttg atgacgtgc tgaacaagt tgtgtactgt tctaagcaca  
 2761 actggttga tactgtccc acggcctgtc cactccca ccccaacct ccaccaggt  
 2821 agttagatg tagggaggt gctgcccggc ttgtcttag gcaatgagg accaagtag  
 2881 ccgtgcacag ccccatacac ttcaggggcg taaagaaag agctgagcca aggaatatca  
 2941 gctgagccca gggctgggg ctgctgtct gctatcctgt accttttt tttaacca  
 3001 aataaagat tccctcttc ttgccatac attgctgtc tgttggcgc ttactltg  
 3061 gggccaggga ttggacctgc agtgggcgtg tgaacatat ggtccccc cgctccagc  
 3121 ttcttccag ctggccagt ctgctctgga gattacaag cacaacgaag ccaggaggga  
 3181 cacagaaaa gtgctgaca tccctttcac tctgccctc cagaactctt ggtctcaatt  
 3241 ccagacacca cccagcctta gctgacctt ggaattgat agtccaggt gcaggtgag  
 3301 acagaggtt taactccagt ttgggactgc catacccatg aactgagcc agccaggt  
 3361 aacgatctca tgaacttc tcttcccca gtgtgtgac tacatcaaga tacacacatg  
 3421 tgcatacact gtactatggg ctaaaaaaat acgtaccgct accgttcagc aagggcttg

FIGURE 6B

3481 cgaqtcccg gccatttc tcattctaac ctgtagag gatgatgtca gccitttac  
3541 agatgagga actgagact aaggaagaa cagagctgc ccaagttcac ccagctggca  
3601 aagcagcaaa tcccagatcg gaacctgac tctgccccg gctctgagc atctgacta  
3661 cccaaggaat gaatacacg gtggagagat gagatcttg agaacccta aaattagaga  
3721 atgtcatagc cagtagaggg cttagagtg atctggcca gccctctgt ttactgatg  
3781 gagaaatga agccagagg caggaaggga cctggccaag gcctataac aqagctyga  
3841 tgcagtcaca cactctgacc tcattccatt ctctcccat aaattctga ctgtcttag  
3901 actgactyg ttatagatg gatatctcta aacagcagtg cctcaagag aaaaagaatc  
3961 agaactacga atcacttaa agtaatgtaa gtaactctg gcacactgcc tatgggtcg  
4021 ccctgtcca caagagcca caaaaataat taaataat taataccct tcccaaggt  
4081 aaccagtaa gtaagctct ctggccacct gtttaattg atcattcaa gaccagtyg  
4141 aaaagtgct agagctcct ctggccacct gtttaattg atcattcaa gaccagtyg  
4201 tttcttaga agttcttct agaattacc tgytgcctt cccactgcta tcagagccct  
4261 gtcctctgtc ctcaatggag gtagagagca aatggtgct gcttcttca tcaaacacct  
4321 tcaagccta ttattaccag ctaagaagga ttglttgact atgggccaga gccctgagc  
4381 ctgctgtag aatgatgtc gtacagagag gtgggaggt agcagycaga atgaggaag  
4441 ccccttgag ctgcaacccc agctcctgtc ctgtgactc agacagctga ctgtgagct  
4501 ccattgccctg ccagggcctg ctgctcctg cccgtctgag ctctgaact tgggaatgg  
4561 aggccagag gcaagggag gtaactgaga caggaactga gtcagatca acaggcaga  
4621 gcgggcagga gttatcagc agctggtc ccagatgcac ccctgagtc cagcagggga  
4681 ggaagtagaa tgaagggtc tccttgccct tgcctatgac tatgcgagag gcgtgaacca  
4741 ccaccagtc ctctggcta agtggcggga agcaatggt ccctccctg actcagctc  
4801 caaagttcct gggtctgcct tcagggtcc cagtgtcctg ggtatccag cttccccag  
4861 gacttggga agccccgct gtagtactag tacaatgaa ggccccag gttccagac  
4921 ctgctgagt cacaggaata tcctagatca agctgtcca acccagggc cacagctgc  
4981 atgtggcca gaatgcttt gaatgcagc caacacaat tagtaactt tcttaaaaca  
5041 ttatgagatt tttttgcaa tttttttt tttttagc catcagttat tgytagtgt  
5101 ggtatatatt atgtgtgac caagacaat ctccaatgt ggccagggga agccaaaaga  
5161 ttgacacgc ctgtcctaga tggagagga ggagggcagtg ctgagcacat ctggccattc

FIGURE 6C

5221 atccatctg agagagaag ctatggcaa actgcttcct ctcccctgta gacaccagc  
5281 tgggaagtc tggccttgg taagtcctg ctggggtcc ttcctcatt cacagaacct  
5341 aactctatgt taagtcttgg tgaatatatg ttgatacataa taaagttgac gggatlttt  
5401 cacatgataa taatagttgt catctggccg ggcatagttg cttatgccta taattcagc  
5461 actttggaag gctgaagcag gtgatacact tgaagtcagc tgttcgagac cagcctggcc  
5521 aacatggtga aaccacatct ctacttaaaa aaaaaaaaaa tacaaaalt agctgggtgt  
5581 ggtgtgacac ccttgtaac ccagctactc gggaggtga ggcagagaa tcacttgac  
5641 ccaggaagtg gaggtgcag tgaagtcaga ttgtgccact acactccagc ctgggtgaca  
5701 agagcgaaac tccgtctcaa aaaaaaagaa ataataata ataagttg ccattccattc  
5761 tactgtgct tccattaact cgtgtaatcc tcacaagtc cattttatag ttacaggaac  
5821 tgaagctcac agagctlaaa tcaactggcc aagggcacaa acagctataa gaattacatt  
5881 tagcagtcct gattccaag atactagtc atctgtalc tcatagacaa acaatacata  
5941 ttacttttt ttgttgttt ttgtttgag acgagtcct gctctgtcac ccaggtgga  
6001 gtgcagtgcc gccatctgag ctcaactgcaa cgtccgcct ccggttcaa gcgattctcc  
6061 tgcctcagcc tcccgagtag ctgggactac aggcattgtc caccatggcc ggtcaattt  
6121 ttgtattttt agtagagaca ggttttctc ggttagcca gaatgtctc gatcctga  
6181 ccttgtgac caccacctc agcctcccaa agtgcagga tgacagcggt gaggcaccgc  
6241 gtcggaccata tattactat ttataaatg gagagaataa gaaatcaaa agggccaggt  
6301 gtagtgactc acacctgtaa tcccagcact ttgggaagcc aaggcaggag gattgctga  
6361 acccagaagt tcgagaccag cctgggcaac atgtgagac cctgtctca caaaaatatc  
6421 aaaatlagc tgggcgttgt ggtgagcacc ttattcttag gaagctgag cagagatc  
6481 acctgagcc aaggaagttg agactgcagt gactgtgat cataccactg tactcagcc  
6541 tgacatcag agtaagacc tatctctaaa aaggaatgt agaagaaga aaatcaaggt  
6601 gaagcaaat cactcactct cactaccctca agataccctc tagaagttg tatttagtg  
6661 tggttcctat tgttttctgt gtcagttctc tgattgagc aaaatcttg gtagctcaaa  
6721 cttaaatcc ctttacttc cttgaaacc ctgtagcatt agcccagaca tgtccctact  
6781 cctcctgtg gcaaaagaaa ggalctcgtc ttgtgtccc agagttctgg ctaagcctc  
6841 cctccagag ggaagatgag tgttcagaca ctcaagtag ctgggggaga cacagcctg  
6901 tgaattatc ctggtcaac tattagtcg gcagaatccc agtgaaggga gccctacctc  
6961 tgaagcccat ctaagcttg gctatgggtg gggcagataa gcaggaatcc atccctatag

FIGURE 6D

7021 gctcaatgcc aaccacctta ggtgaactc ttgatgaac ttgagggcag ggtccgga  
7081 agcaggga aa gaacgttggc aacagagtc tccatctctg aggactctgc cagggtcag  
7141 agatgggga atgtcaaaa ggaaggaaca ggccaggcac agtggctcat gcccataatc  
7201 ccagcactt gggaagctga ggcaggagga tcgctttagc ccagagttt gagacctgcc  
7261 tgggcaatgt agtgaatct gctcttatt taaaaaaaaa aaaaaggaaa gaacaagtta  
7321 actctgaga aacaggtgag gggagggcac acgtagcttg aattgctgc ccataaaca  
7381 gaatggtatg tgtcactgcc accctccctt ctcagtcctc tctctccca ggttgctagc  
7441 gtcccccctg gggatcaaac tggactgctt ccagcctca gacagagagc agtctgagtc  
7501 aggcaggaaa gtgggacagc cggggagctg gacccacc tctgtagcc ccgctgtac  
7561 ctgattgcat gtgcttga gagggcaggt gacctggcgt ggaaggccag aggttaatc  
7621 ctcaacaag tggcaacag ccaccaact gaaaggaaa atgtgtagt gatggaaat  
7681 gtgtccaaca aacctactg gtgactaat acaaggctg gctggagct tcagaggtg  
7741 cttgttaaac actcattaa gcggcactct gaaagctgc acctgcgat tctggagct  
7801 cagaagggac cctgagggg atgagggcct ggaagatga accatctca ggtagactga  
7861 gaaggagcct gcatctcat tccaacaca gtctggagct catagtcag aggcctcaat  
7921 gggaagaaag ctaaggaag aggttgcaaga aaggagttc agggaattg ttgctatgtg  
7981 actttagca atctcacc ctctctgaga ctaagtgtc ccatcttat ggtcctgtg  
8041 gtgtcacaga gacatgttg gattaatt cgatcgtgat atgaaagtgc ttggaaact  
8101 ccatggccct acctaacat gattatcct cactgaacc aagggggaa gttacctggc  
8161 agatttaga accccatcct cctgaacct tatggctct gtcaggctg aagcagccag  
8221 gggttaaagc cagtccttag cccctggaag ggcactgtga aagtgatct gatttgaa  
8281 gccgtttcct gatgtggca gccatgtgat gccagcccg aacaagagg ggcagcctg  
8341 agcctgaaa ggtggcagtg cagtgggc ccaqcccg atttctctg ctgactgtc  
8401 tgatgattca cccccacatc ccagccttt taacttact gcagagccg aaagggttg  
8461 gggaagagag gagaggag caggtcttg gccctgtcc cgcccctgc tcctccacc  
8521 ccttctctg gcctggccac ccagccaaa ggcaggcca gagcagaga gacacagagt  
8581 ccggcatgg tcccaaggcag cagttagccc gccgcccgc tgttgtccc cagagccatg  
8641 gagagagca gtcgtatca gaaggccaag ctggcagagc aggccgaacg ctatgagag  
8701 atggcagcct tcatgaaag cgccgtggag aagggcgag agtctctcctg cgaagagcga

FIGURE 6E

8761 aacctgctct cagtagccta taagaacgtg gtgggcggcc agaggctgc ctgagggtg  
8821 ctgtccagta ttgagcagaa aagcaacgag gaaggtctcg aggaagaagg gcccgagtg  
8881 cgtgagtaac gggagaaggt ggaagactgag ctccaggcg tgtgcgacac cgtgtctggc  
8941 ctgctggaca gccacctcat caaggaggcc ggggacggcg agagccgggt ctttacctg  
9001 aagatgaagg gtgactacta ccgtacctg gccgagtggt ccaccggtga cgacaagaag  
9061 cgcatcatg actcagcccg gtcagccctac caggaggcca tggacatcag caagaaggag  
9121 atgccggcca ccaaccccat ccgctgggc ctggccctga actttccgt cttccactac  
9181 gaatcgcca acagcccccga ggaggccatc tctctggcca agaccactt cgacgagcc  
9241 atgctgatac tgcacaccct cagcgaggac tcctacaag acagcacctt ccatgcaag  
9301 ctgctgcgag acaacctgac actgtggacg gccgacaacg ccggggaaga gggggcgag  
9361 gctccccag agccccagag ctgagtgtg ccggccaccg ccccgccctg cccctccag  
9421 tccccaccct tgcgagagg actagtatgg gttgggaggg cccaccctc tccctaggc  
9481 gctgttcttg ctccaaaggg ctccgtggag agggactggc agagctgagg ccaactggg  
9541 ctgggatcc cactctctt gcagctgtg agcgacctc accactgtc atgccccac  
9601 ccctgctctc cgaccccgct tcctcccgac cccaaggacca ggtacttct cccctcctc  
9661 tgcctccctc ctgcccctgc tgcctctgat cgtagaalt gaagagtgtc ccgcttgtg  
9721 gctgaagaact ggaagttggc aggggctgga gatgggtgtg tgtgtgtgtg  
9781 tgtgtgcggc cgcgccagtg caagaccgag actgaaggaa agcatgtctg ctggtgtga  
9841 ccatgtttcc tctcaataaa gtccccctgt gacctcctc ctgtctctc tccagttct  
9901 ggcgatggc tgggagtggt actggaatc gacttagaga ccctgactt gacacttga  
9961 gtagggccc tgaactccct agtgtgtca gtggcccgca cgcaagactt tgagtccagg  
10021 tgaggccggg gtc

FIGURE 6F

H.sapiens Wilms tumor (WT1) gene promoter.

ACCESSION No. X74840

```

1 agcttgcagc cccagcccg gccagccagg tacaggaagc cggactgcaa ccggttgctt
61 ccctccgctc ggccttggc gtcccaagct gcgcgctgc tgtgcctcc tggcgccctt
121 ggatattat acgcacctt gaacacgct ccgctccguc ccccggttct tctcctggc
181 tagggttgt ttccaatag atactgactc cttagaaga tccaaaacc aaaccaaac
241 accccctacc cgcccaaac acctgctctg gggcgcggg gctgccaac agagactaga
301 cgaaggagat cagatttag gaantcttc agtcccaaa gattcgaaca ctaactcgcg
361 ccgctgggc gatggaggt ctccctactc cactcctgg tccctaac tggctccgc
421 ctctgttca atcactgagc aaccagaatg gtatcctcga ccagggccac aggcagtgtt
481 cggcggagt gctccagga ttaccgctc ctgcccggct ccgaatatat gcaggcttg
541 tcaccctcc tccccaact gggcgccagg atgtccguc cggatatat gcaggcttg
601 ggcgtttgc caagggttt ctccctctt aaactagccg ctgtttccc ggttaaccg
661 tagaagaatt agatatctc cactggaag ggaactaag tgtgtgtgac tccaattta
721 gtaggcguc aaccgcttc gcctggcgca aacctcacca agtaaacaa tactagccga
781 tcgaatatag cccggttat aactgttgca actccggcc acccaactga gggacgttcg
841 cttcagtcc cgaccttgg aaccacaaa gggccactc ttcccagt gaccccaaga
901 tcatggccac tccctaccc gacagttcta gaagcaagag ccagactcaa ggtgcaaa
961 caaggtata cgcttcttg aagctgact gagtcttcc tgcgcttcc tgaagtccc
1021 gccctcttg agcctacctg cccctccctc caaaccactc tttagatla acaacccat
1081 ctctactccc accgcatlctg acctggccc gactcactgc ttacctgaac ggaactcca
1141 gtgagaagag gctccacac tggcggaagc caaagaagg aggtggggg aggttgtgc
1201 cacaccggc agctgagag gcgtgttgg ttgaagagga ggtgtctcc gagagggagc
1261 ctccctcga cccgccctca cccagctgc gagggcgccc ccaaggagca gcgcgcgctg
1321 cctggccgg cttggctgc tgaagtgaatg gagcgccga gcctcctggc tcctcctctt
1381 ccccgcccg ccggccctc ttatttgagc ttgggaagc tgagggcagc caggcagctg

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FIGURE 7A

1441 gggttaagag ttcaagggcag cgcccaacc ccggggtctt ccgcaaccgc accgcctgtc  
 1501 cgctccccc ctcccgccc tccctccac ctactcatc acccaaccac ccaaccagag  
 1561 ccgggacggc agcccaaggc gccgtctct ccgcgcgac ctgacttc  
 1621 tcttgctgca ggaaccggct tccacgtgtg tcccgagcc ggcgtctcag cacacgtcc  
 1681 gctccgggc ttggtgccta cagcagccag agcagcagg agtcgggac ccggcggca  
 1741 tctgggcca gttaggcgc gccgagcca gcgctgaacg tctccaggc cggagagcc  
 1801 gcggggcgtc cgggtctgag cctcagcaaa tgggtccga cgtgcgggac ctgaacggc  
 1861 tgctgcccg cgtccctcc ctgggtggcg gcggcggtg tgccctgcct gtgagcgcg  
 1921 cggcgcaagt ggccgcggtg ctgacttg cgcccccgg cgctcggt tacgggtcgt  
 1981 tggcgggccc cgcccgcca ccggctccgc cgcaacccc gccgcggcg cctcactct  
 2041 tcatcaaca ggaagccgagc tggggcggg cgagagcca cgagagcag tgcctgagc  
 2101 ccttcaactt ccaatttcc ggcagttca ctggcacagc cggagcctgt cgtacggc  
 2161 ccttcggtc tcctccggcc agccagcgt catccggcca ggcaggatg ttccctaag  
 2221 cgccctacct gcccaagtgc ctcgagagc agcccgctat tcgcaatcag gtaagttag  
 2281 ccggggagcg ccccta

FIGURE 7B

Estrogen Receptor (ER) : Homo sapiens estrogen receptor beta gene, promoter region  
and partial cds  
Accession Number AF191544

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1  actatagggc aCGGctgtgc GaCGggcccGg gctggtattg atagatgcac ttcttcacc
61  ctacacctac tttttctgcc tgttggtcta tggttgaaat tccttcata CGgtttccac
121  ttccagagat atcttgttaa caagtatata ccaccaaatg aagctgattt tttttttt
181  tttttttga gacagagtct CGctctgtCG cccagugctg aatgcagtgg CGCGatcttg
241  gctcaactgca accctCGGcct cccatgttca agCGatcttc ctgcctcagc ctccctgaagta
301  gctgggatta ctggcatgtg ccacCGGctc cagccaattt ttgtatltt aytagagaCG
361  aggtttcacc atgtgtgtca gctgtgttc aaactcctga cctCGtgatc cactgcctc
421  ggcctcccaa agtctgtaga ttatagtggt gagccaacat gcctggccat gaagctgatt
481  tttttaaacc atcatttaac atttctcca taagtgtgca aggaagaaaga gcatatgggg
541  actgggtact ttgagagacc ccaagacagag agacaagggag gctgagatg gcatgtgtgc
601  tgctgcagtt attggccagC Gacacactct ttCGctccaa actaacttct ctgcctcaag
661  gacaaggaga ctctgcctt caactgtaga gaaaccagga ctctcagctt taatgaaat
721  tggacttagg gtggggcagt ggaagacttt cacagctatt gtttagctga tgaagcagat
781  gcttctccat cttggagacc tgtcttcatt acctgtggac ctcatctta tcaaccagaa
841  gcaacattgC Gctctctat ttgtgctaaa caaccaaacag ctgaagctgg tactgtaaaa
901  cttccctcc aaatgcccc cctCGctctc ctctataga gatctgatac acaaccctca
961  aaacacatgt cccttatgcc acctgaagtag atggtttgat gattaattag gcacagatgt
1021  gacactgggg ggtgtctaca atgucctgtg gttcacatgc tactttcct ttcatttca
1081  tcaagcaacag ctgccttaaa gccagttaag actgtgtccc taagtCGca ccctggggct
1141  cctgtgtggg tgggtgaggg gaaacaccca ttaagctggg ggaactgggg ctgccaccag
1201  gggyCGGag gggtccttCGc cCGaagaagag gggtgggag gtgcctccag CGgagaaggg
1261 CGcCGtggc Ggaagcacag gtctcccCGg tgcacattca agtgaattCG aggaagtacc
1321 tgggatcttt gatctaaCGc Gaaagucct cccagtgaac tcttgaggc tgaagaacca
1381 ctccctccac ctctaagcca CGgctttgcc actccagggc cCGaggttaC Gttgtgtct
1441 gggtatttga caaaccacaa gcctctctgg ttccaccaact ggtcctctag aatcagacat
1501 ctgttctgaa tgacacttat gtgagtcaggg ggttgagagC GtgaatcctCG aagtgtgtc
1561 cccagactgg ctgtatcagt gtCGgcatcc cccagacat ggttgaatat gcatattctc
1621 aggccctact ccagacctct taatctgag actggggctg CGgggagCGc catctgtgCG

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FIGURE 8A

Unmethylated 288 BP

GGTGTttttt agatTGTTGg FUM 21 BP AT 60

**TG** agtgTGatg ggtttg

ccaaacc CATCaact CA RUM 20 BP AT 58

Methodology for the

FM 18 BP AT 60

CGggaag taCGgttCG t

RM 20 BP AT 60

**FIGURE 8B**

**FIGURE 8C**